

Appendix

Test Data

for BTEK250110050A01-T05

Start date	2025/2/27	Finish date	2025/2/27
Temperature	20.0℃	Humidity	55%
RF specifications	BLE_125kbps	Test Engineer	Zora



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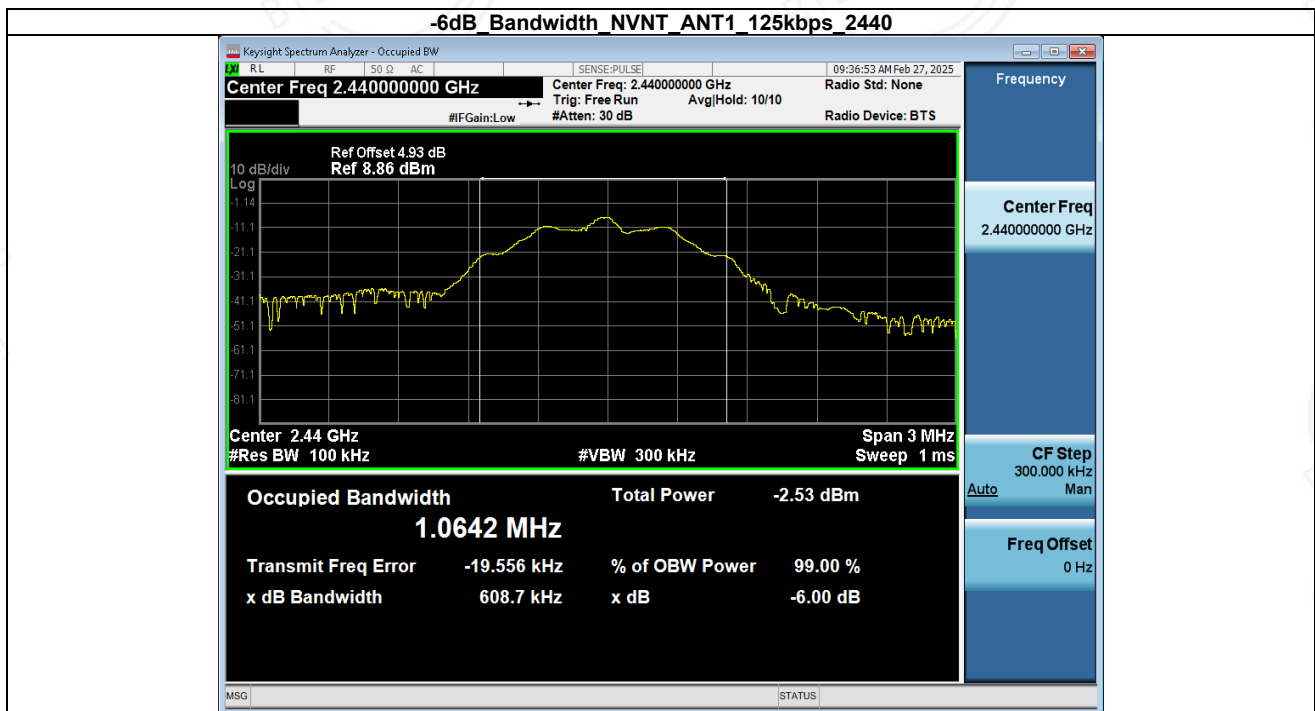
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BTEK250110050A01-T05 S8 FCC_BLE (Part15.247) Test Data

1. -6dB Bandwidth

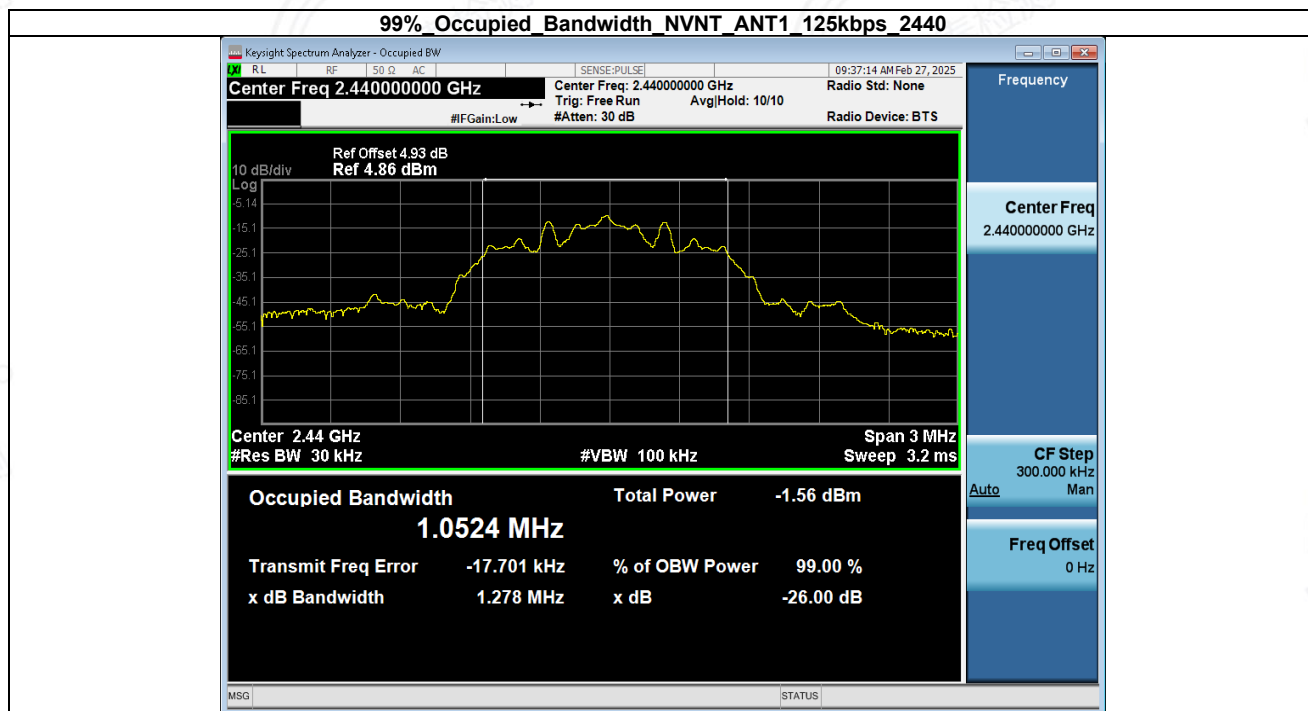
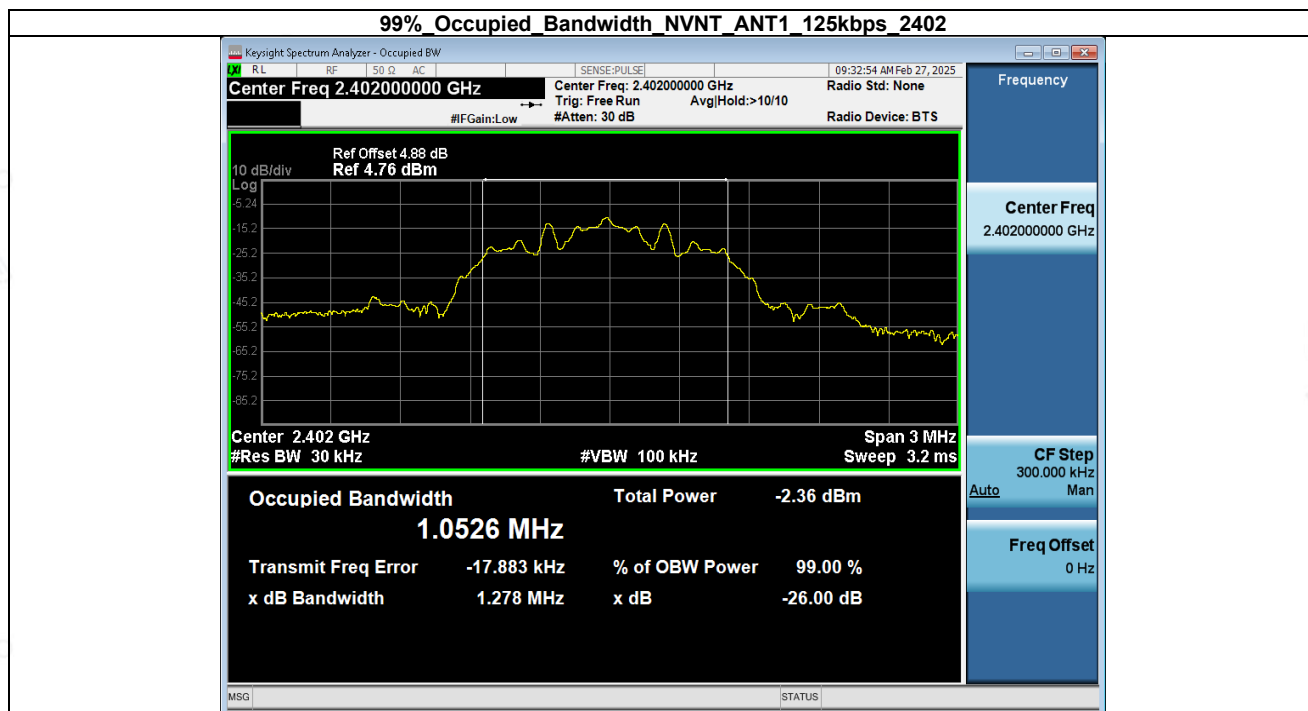
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	125kbps	2402.00	603.28	500	Pass
NVNT	ANT1	125kbps	2440.00	608.68	500	Pass
NVNT	ANT1	125kbps	2480.00	605.39	500	Pass





2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	125kbps	2402.00	1.053
NVNT	ANT1	125kbps	2440.00	1.052
NVNT	ANT1	125kbps	2480.00	1.055



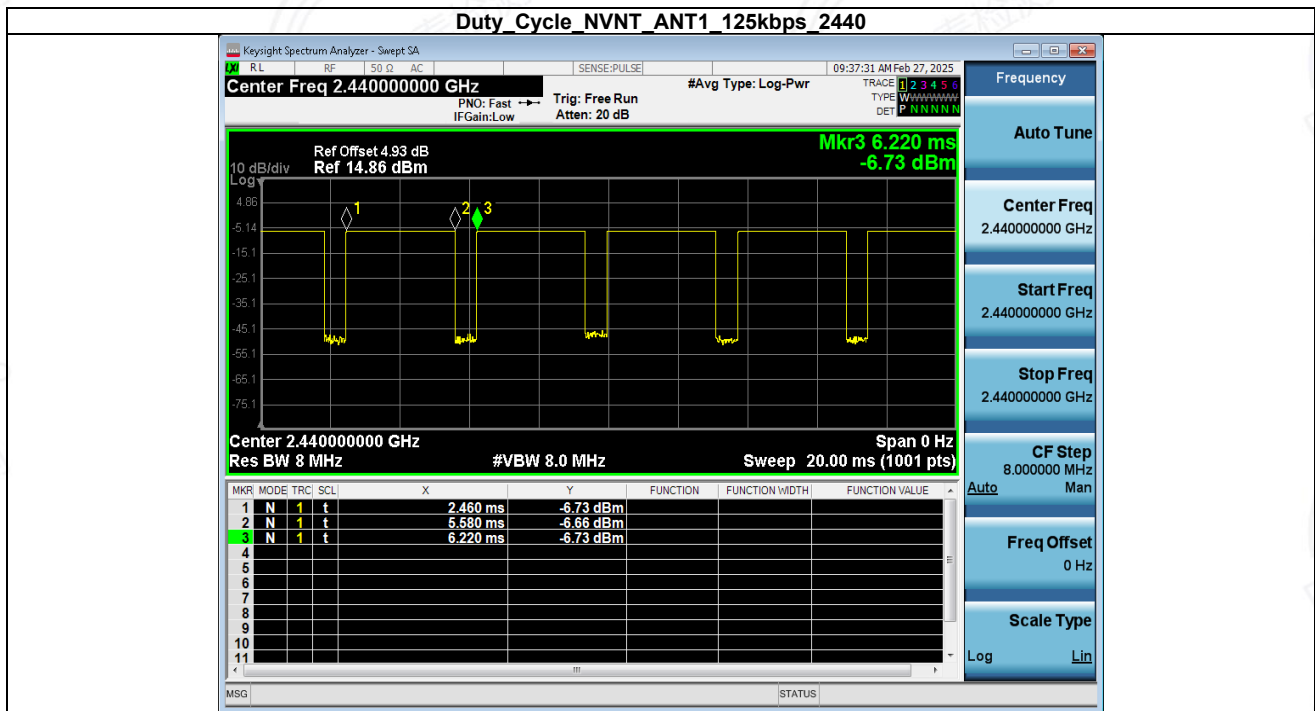
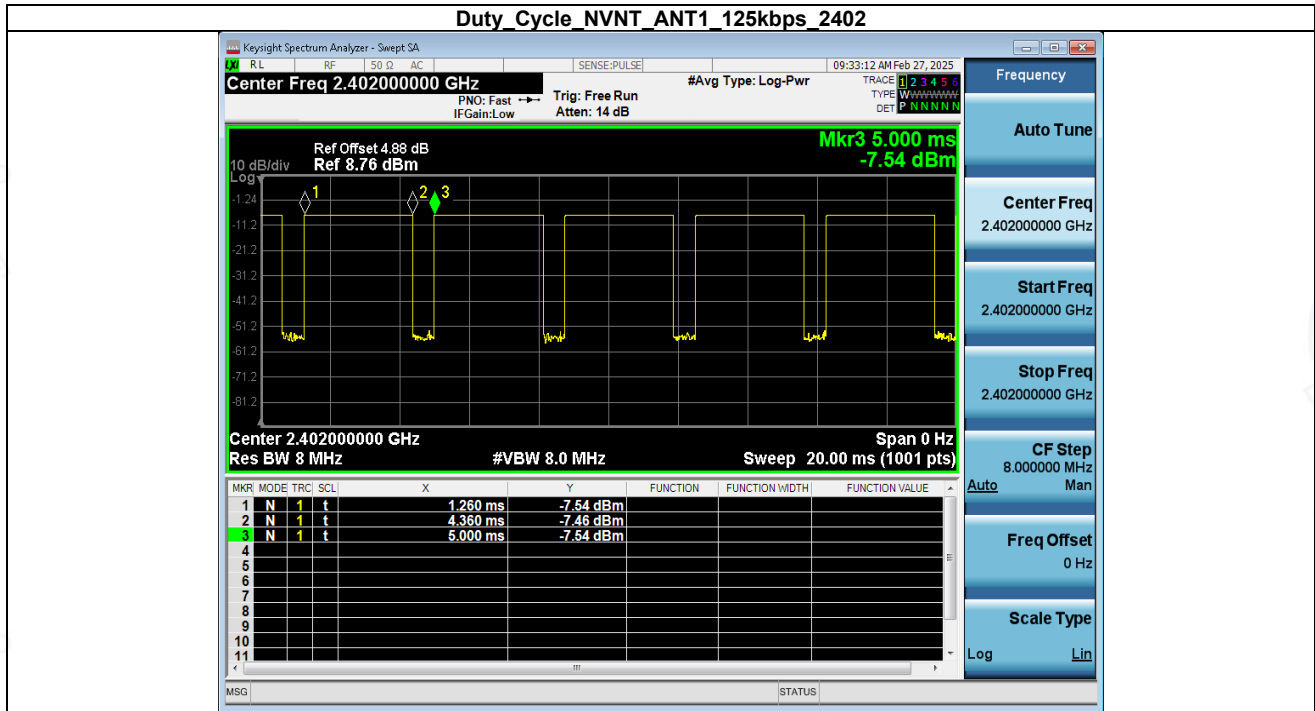
99%_Occupied_Bandwidth_NVNT_ANT1_125kbps_2480





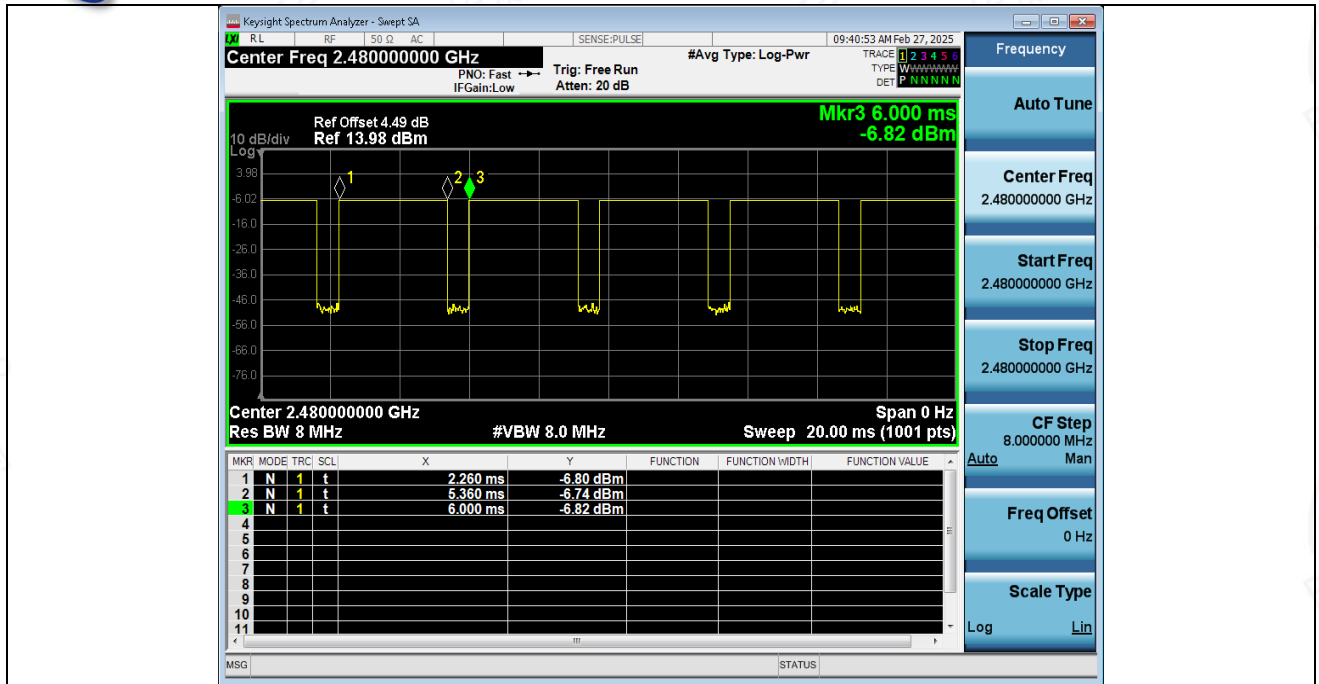
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	125kbps	2402.00	83.42	0.79
NVNT	ANT1	125kbps	2440.00	83.51	0.78
NVNT	ANT1	125kbps	2480.00	83.42	0.79



Duty Cycle NVNT_ANT1_125kbps_2480





4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	125kbps	2402.00	-7.45	0.18	1000	Pass
NVNT	ANT1	125kbps	2440.00	-6.69	0.21	1000	Pass
NVNT	ANT1	125kbps	2480.00	-6.69	0.21	1000	Pass

Peak_Output_Power_NVNT_ANT1_125kbps_2402



Peak_Output_Power_NVNT_ANT1_125kbps_2440



Peak_Output_Power_NVNT_ANT1_125kbps_2480





5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	125kbps	2402.00	-13.75	8	Pass
NVNT	ANT1	125kbps	2440.00	-12.93	8	Pass
NVNT	ANT1	125kbps	2480.00	-12.97	8	Pass

Power Spectral Density NVNT_ANT1_125kbps_2402



Power Spectral Density NVNT_ANT1_125kbps_2440



Power Spectral Density NVNT_ANT1_125kbps_2480





6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	125kbps	2402.00	2399.870	-7.771	-40.866	-27.771	Pass
NVNT	ANT1	125kbps	2480.00	2483.575	-6.864	-52.726	-26.864	Pass

1 Reference Level NVNT_ANT1_125kbps_2402

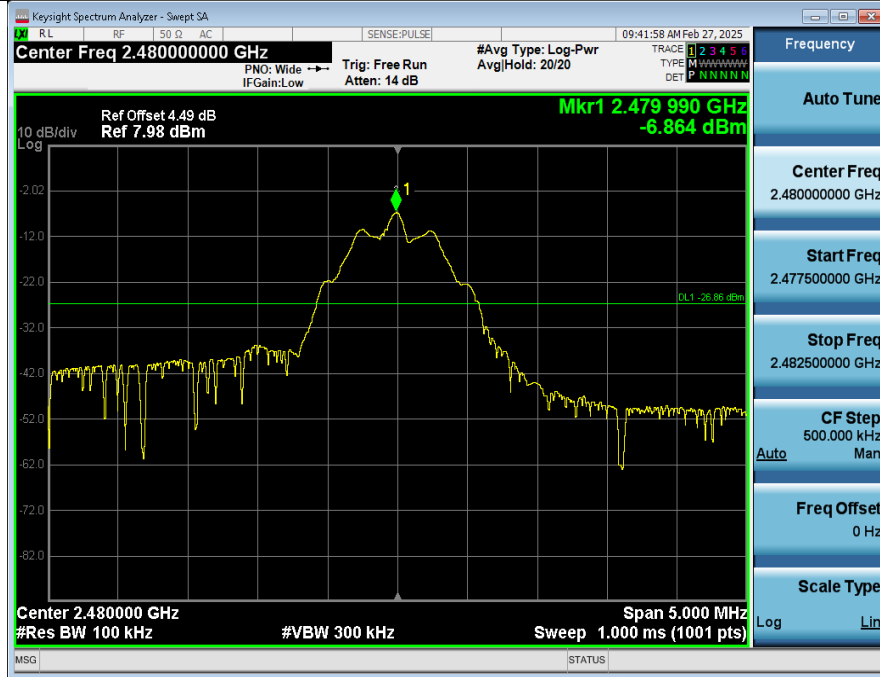


2 Bandedge NVNT_ANT1_125kbps_2402



1 Reference Level NVNT_ANT1_125kbps_2480





2_Bandedge_NVNT_ANT1_125kbps_2480



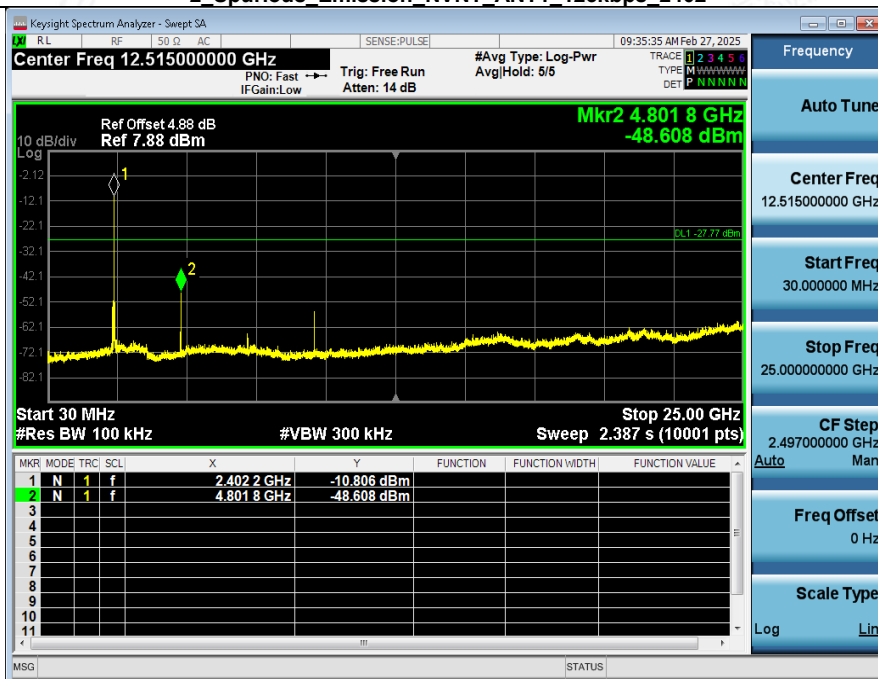
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	125kbps	2402.00	-7.771	-48.608	-27.771	Pass
NVNT	ANT1	125kbps	2440.00	-7.264	-47.647	-27.264	Pass
NVNT	ANT1	125kbps	2480.00	-6.864	-47.905	-26.864	Pass

1 Reference Level NVNT_ANT1_125kbps_2402

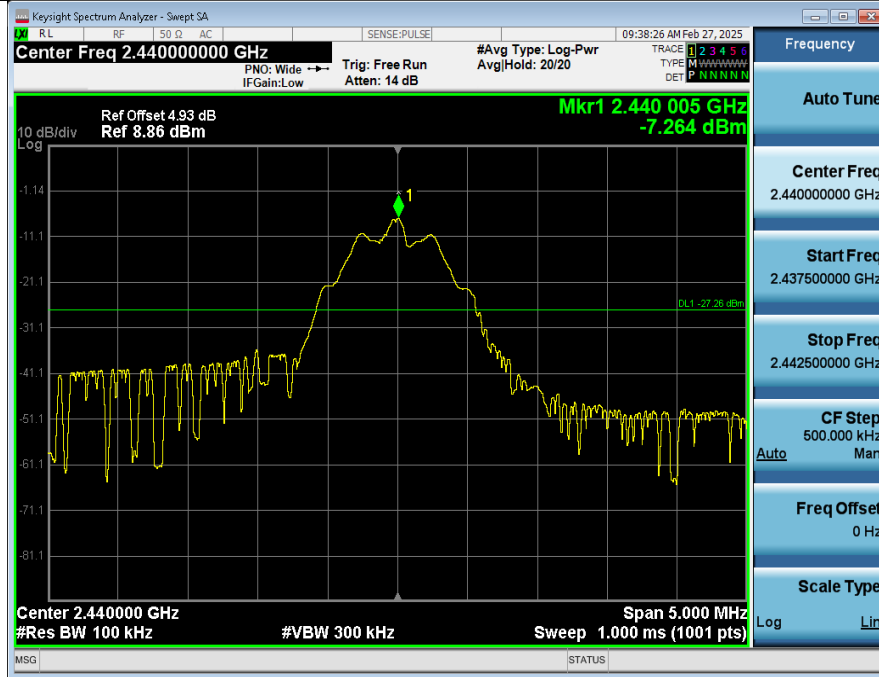


2 Spurious Emission NVNT_ANT1_125kbps_2402

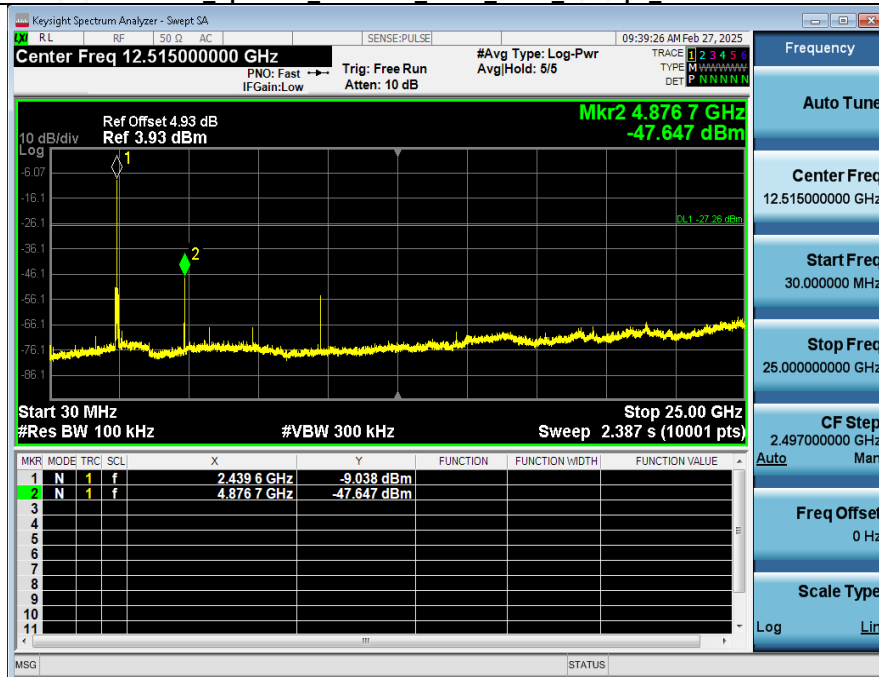


1 Reference Level NVNT_ANT1_125kbps_2440



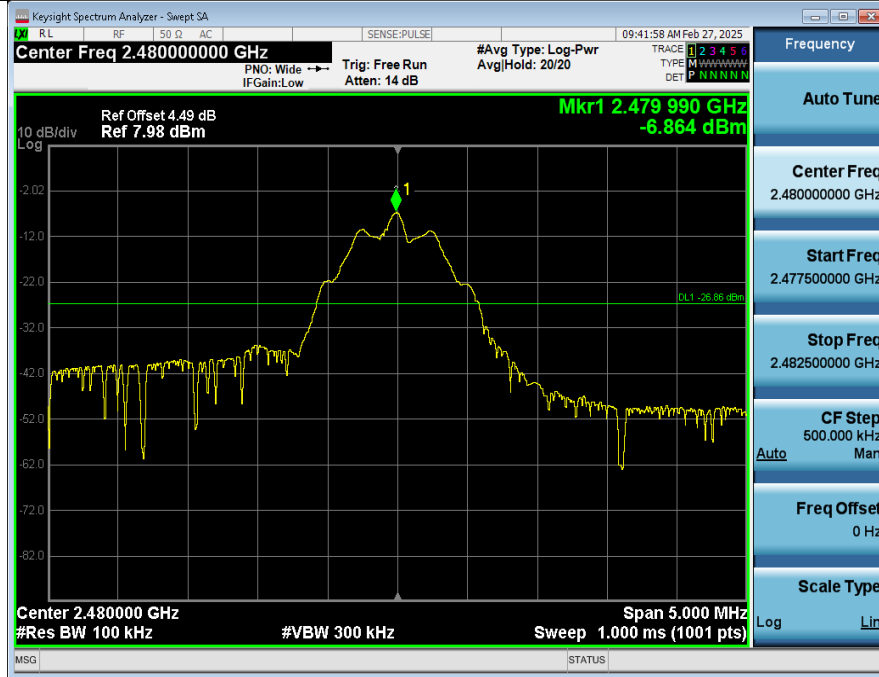


2_Spurious_Emission_NVNT_ANT1_125kbps_2440



1_Reference_Level_NVNT_ANT1_125kbps_2480





2 Spurious Emission NVNT_ANT1_125kbps_2480

